# AVATION

The Oldest American Aeronautical Magazine

JUNE 7, 1926

Issued Weekly

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VOLUME XX

# SPECIAL FEATURES

NUMBER 23

NAVAL AVIATION
THE IRELAND METEOR
THE AIR-COOLED RADIAL ENGINE

CARDNER PUBLISHING CO., INC. HIGHLAND, N.Y. 225 FOURTH AVENUE, NEW YORK

June 7, 2926



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Published every Monday

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America Pess Commercial Anciety Engine. The new Redembucker 60 75 has few cylinder radial six-cooled engine, copaged with two Tope AP 5D 3GINTILLA Arcents Microscope.

> No. 7 in a contact of maders American adversive explains for which address LLL America Magnetics have been solvened as doubless equipment.

Arcoré Espanos and Pilou suest upon agestion equipment of the unious depositability fluxus ENTRILLA Arcords Magnetia have notably use this requirement they have been adopted to most or the unious American antilary and consensual seganos. In Levil Cender, R. E. Byrdy, D. Irr; H. with viewshop fight to and from the North Tole SINTILLA Arcords Maintenin Generated services.

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### At the North Pole

When Lines Community Dubred F. Bred U.S.N. flow over the North Pole recently. he accomplished a feat which has long been the down of avenue. The fact that his his respectate was engineed with three Curtis Reed propellers offers proof that these prorelies are the choice of palots who demand hash efficiency and absolute dependability in the face of system operating conditions

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Maximum possible dismeter for new propeller- (State the maximum director you can swing and still have proper eround clearance).

Norman and Address



L. D. Visota VOL. XX

**AVIATION** 

BINE 7, 1926

Control of Civil Flying The Assurantical Engineer

BERE ARE, so most semestical enterprises of any considerable man, two technol. One, the frame ner-FERRIS BILL to condute stell arrord and other has not all both botses and has been signed by the Parendent

Convent raised the law for the purpose of opposituaerrites awater. There is nothing in the law stuff which of become in check those incompetent or reciting pilots and the alasmeticans of simusts. It will affect facilities for the checking of pay designs at small cost and yet it will

So much for the law. The morelations to be drawn up together and fight for their interests. Unless the ollets tale mail the most wires will be not us charge of controlling civilian. cere andividual who felt that almobite enforcement of an engineer's sufety code is the only war to promote avision It is no to the officer and operators to take an active inthe law and their economics should be unicomed by these gaking themselves heard in Washington through an active

sperators and all others ensermed with the many aments of it will do the most good. But the enserted thing is susserted

W. Laurence Liftwe

prader an existing on the operations of a company to size up a saturation and reach the heart of the problem which the hory exceptive or the financial backer has mared.

on the peneral plan of nelice and render an opinion and gas advan. There are men who have specialized in the stelly consisting engineer is most valuable. A docum one he seem over by a constitut designer in a comparatively short time offer some verticable successions. Economic where a new plans is being financed by an individual, it will perhen to consult an enterior man in order to get an unkneed ecision so to the drive set forward.

Evolution By Air A T A TIME when the neplace and certain are wouldy on beliefing their covariability as a more of princing score

previously unexplored across of the santh at the North Pole. eloration, consily interesting even if less perturous from the robble standarded. Rescrite are now beginning to come explore the mineral wealth of the head and learn whatever there may be to learn about the pagery inhabitants. Withcut the sal of the similary vife which the expeditors to consend work of the reducted nonclother of the undertaking would be lost, for to reach the most unappossible parts of this socials would be impossible on feet. The expedition has only mostly made to first flight, with much sperson, and that, one he said at this rives but that the airclass is needs. about to demonstrate its possibilities from the standpoint of exploration is podoubted

### Aeronautics With the Navy

Curtis D. Wilbur, Secretary of the Navy, Discusses Naval Asiation Activities and Interests. that the Year Downtood has done a very cost that to of the Berray of Accessing and of the manufactures was

THEY NATIONALLY the prisons ratered of the Naco

the tarpolo, after years of development, was sirends

a ton (ar preferrily one of 3,000 Its weight), or a boats at one, weighing about \$,500 lb. Of course, a boost of correreacher one one he solubbated. The reason of action for

It'm difficult for a layers to appreciate the difference bepedo and one which one carry a 1,500 He tompole. Police

Greater Terpedo Poestellites On the other hand, if the terpedo place our carry a torocco-



and Indian these markets allocat (Wright TZ control) in techning apprehiess of Cults, in Constitution Date



military the news, a true expectably adopted to the peeds of Petrol Physics

Have in fight up complet of the development The Plantage Phale

once. The NC plane was the result. This plane made the flight in \$600 from Non-lors-disay to the Armers, thereoe to flight in 1800 from Nowfoundinal to the Armers, Server to Partings, those to Funce and to Tlymouth, England, the first bearminates fulf of a swepter. g of this fight was 1,000 mms.

The PNS Physing Bout
A level reconstruct of the NC flying bout, boun in 1812. and the PN-0 fring boot, completed in 1805, will indicate

It has of gentles could be correct. The name about a

The Bostar plane (PS-1), which was to have taken part

unformed reliability, the plane can fir to any point in the Three Years to Develop a Plane be, a total of \$400 kg., while the cover pleat of the PNO. This period recognits the constant effect of money comerts. concentrating upon the determination of the fundamental especify and speed. Lake all new developments, there to partners" apprise obsert delinered in 1924. A contract was

4,500 ft with the gracestood lead. This difference, with

### Some Disappointments

# To the matter of banding similars, it is not sufficient to

with), and that dependence coll be placed not on a wegle light he smeller bombe of over 1,000 Et. Agus, it must be the decrease from the role of the ship. But it is improvible to determine how far from the abit the burb will stelle.

sharper amount it. the heidding of blisters on the extends of the buttleship Fouth Carolina and the explosion of TST in

Constant experiments have been extried on by the Navy

water evaluates. These experiments have been correct on



, more y or one accord pass of the U.S.R. Med. Pagents the first of that there is in final on any sleet. During recent both a number of direct his next oftened with these pass of direct his next sleet of the pass of direct higher level by my in med. [2,000 to whitele.

Observing Planes for Long-Rouge Gundre greatest's board upon the utilization of smaller for offerer and befrees New problems true in congestion with these means of

are based upon electrical possible of those preceding-oil in resental that the cutof location of the splink of the previous

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skilly of the place is early as observer who has sufficient room which is the shape the shall some which the piece is reporting ours first. In this work, thursdeen, it has not only artised to any engagement the street and arrian the most in

June 2, 1986

Places on Stone



and has made it possible for each haddenlin to carry its own



AVIATION

More Experiments on Injection Engines A record, settled, "Street Prestrators With a Secret-The tests severed by the report form a part of a general

The find was convey into a chamber fitted with olons walls.

lest in necessary if the effects are to be approvated sufficiently

uped photographic apparatus, expehis of taking a continuous science of 15 choloroushs at a take of 4,000 per sec was used to record the development of single spents. The effects of find supported from 2500 to \$500 fb, not as in and The results have shown that the effects of both chunter and A copy of the suport, No. 225, may be obtained upon pe-Aeronautical Exports

expect databas for the month of Petrages, 1828. The fig-





of childs or theybon damper. With the alocace of Missiric Achievements In priceing this nativel it will be well to leach upon the Let us last back to the year 1906 when the The year bolds a segudence date, July 25, when Hernel eroused the English Chennel to his plane, equipped with a The medicity of Eurical was firestoned and

It was to Proper, however, that the original development

An Outline of the Central Features of Air-Cooline and the Radial. Type of Engine

By ROBERT W. A. BREWER

I HAT IS the symbologic values of mediation at the sar-

weather than will a water-ended one. The reason in

Geurlas Problems

radial acrossied enemes, but it is a current test that early romany. The enterior was probably the extra of much or



Consumeder (E)m's theoretizes Folder OFright Whichendy) heng french though the use from the \$5.5. Chanter to the King's Boy shore. The fee photopuphs from Spanlerger

There are muso, by which the persons flexure at the shall

8. A minimum of two and maximum of three main bear A until for ead borner to bt on the creakpin.

12. Surplified crying: Many modern sugmen almost duperson with cowline as mustly formed, relieves being

Totale recommended of the advantaged of the sales on

We have not so far touched noon pressure balence what

True again, is a function of priper carbardess and disan observe and engine is count in operation due to had in his engines. Multi-carborrier installations have been and to support the cold Early refine suffered belly be non-registed. Madern revolute her rando some advance in the received and one rotable step was the multi-present rotal received of the Japane The writer's early sagme Inhousely, the maked should give ideal distribution so all size, etc., and so operation, the internal forces acting upon

So, coundering everything, we have in the radial many inhursed features winds make for on ideal capture. Part fellings of the type ore lamping for to feelly instellation :

Envine Lubrication at Low Temperatures

with cardinolar reference to the extent to which they are sh furneed by change in temperature, one being studied by the recovery law temperature our reaffer be obtained. The energy in provided with complete congruent for measuring of flow under various readitions. Measurements with this

ness he made to prevent correction when temperature on-

After on mak that the ail flows founds

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Some others has been lead upon the subject of rearest became the writer believes that a gravid radial engine has exactlerable process. Successful bubbles of state radials racter comme as request "awarag". A max was made with the primare that power to enough rate was dependent upon relation of weight. It she beaper upon production of revolution. These two form the least bright selv of the very careful denses. Enterson experiment and persons bar of name hogadory (me which will be nearled as delicer regard sould decade for themselves where this boundary has When we sirise for high specific output we are of some

or every driver. Eliminating of the course is neterally per-

gare of a mare conservative autput combined with ability to dy of semeshet giveter performance coupled with the news-

speakle power cotput not inferior to that of a water-waled Spend of retaken appears to been some limitation to the static rachal due to the loading on the errors over Error In the Japaner engine, for example, means are perwhat for arminister part of the load on the pin by ettackets sufable believe weights to the log end of the manus

Having leaded upon some of the high lights in the quest for maximum power-weight rate, let us see in what recesses the static arrespond radial complex with the desirable 1. It is the most compact engine as reports small begin stilleting a short, still coash shall with a ring's throw The completes in 100 % in termina and there in prec-

2. The form of the natural con be mode souvemently 4. The places are almost outputy symmetrical and round;

tested; and are practically free from internal electors. which are presently found in measurement places.

5. These was very few different bands of places and one engine is emposed of a number of similar parts which on he made esterobanguable. The shock more prob-

s. Shower of short create and small anotherer is an places and they are not to liable to downer There are no difficult fitting operations and linkag up se Solety nimple.

ternal Detail dougs of parts in which heat flow is of major swandars was the determer scope for his regularly

A Wace Price Reduction One or the good naturalized practice and the task to

do popular ine the Wate proved as a light contracted plane. to pake in likely to have the effect of farther secretary the

Titanine Dope in World-Wide Use on Planes Averton during the next few rown has given the world a glaspee of the perturbance punishe to the surplace as an is glanger of the portnormany possible to the oxyginer as an annihilator of distress and ox explorer of remote parts of the night massessible learnings. These have been the South Asserted Trans-Arlandic Physic, the Round-the-World Physic, they have used. But in back of each new fixing adherences: sence one sees syrvisord by man paint in Asim Cohiru and the Marqua de Pincin, with the service given by the dept-manufactured by Trianne, Ice, of Unice, N.J. Alim Cohian, seterns of many flickly and one of Greet Betsie's most When the Roard the World flight was in properties, t When the Engel the Board light will in properties, it was to the Triesne product that have squipping the Dougles Changes barned and the energy restored for MR-5 near planes. prolessed by the Boong Company two years ago, so well a more recent executations by they Company, were formed with



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strate, water, etc., grather a cleanup cost to be applied over

Airways, Airways, Airways

they ask about surplance. They are wrong Surpose, when the reference had started, everything you take case locumetres. All aroug. The tracks that's what made the sulpost. So with motor tracks and submobiles—the highways had in case first, before ony to his ones with saddle logues—a few years ago th The home had been driven from the kirkmen. Reline was done. Then the intelligent few weet out and turned the new colling public to build hattle paths in the

the halding of please. What we went so nevery, nevery, sivery: All this tell about sincle engine When they run the refroods across the country, who send for that head? The rathroad people? They did the servants to get hung and put some public namely rate

m have said production. Consists to firster away public names the rice enjectment to the roots often continue to take at two, those, two was titly enginee process to tary on one over with theory, white weaps and pobles

Czechs and Poles Conclude Air Agreement An annature arrespond has been described between Condudevelop and Poland which greats to Corchestroakis the right

Two preparate here been schedilled to the Conhodorale Ministry of Public Works is stubble a commercial six service latence. Prayer and Trieste, one proposal having been and the other by a group of safesiateds backed by Prittel and 1. It is now reported in Person that the Buttah stone

The Compagnic Internationale de Navigation Assicuas, which maintenan the air line hetween Prague and Warney and timple, in completing properations to reopen the air rents have Streetheary-Prints This competer she place to sutend the roate from Constructuople to Rughed in the course



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A sound view of the Iroland Motor (Carton OX-5)



Antidation of the Correlator in the Antical Status

structural charges. The Wright Whydered comme res. in

A smaker at desirable destages as the late of incommewe seggéré, such as an Alousty Guardatur, mhob eliminate, the noveledge of water in the proofee rendway the car burger, a Pierry Endpoints full lead years on the sectorfigures of the Matter fitted with OX-3 rangue are no follows. 

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Check to 1000 the fell load Clouds to 3000 ft , full lead ....... Clarify to 5000 St. feel land TO 1000 (II 1350 St /mm

The Ireland Meteor (Carino OX4). The photograph shows though the very show region reading with the passed type radiator and also the de-embed arrangements with High windfields. The properties as developed Centus-Read.

M.I.T. Accountical Engineering Society

a chaler compacted and flown in the M.I.T. Acre Society. the Delayer's assuments on the behavior of the planes were The retiring armsdest, Fresklitt T Kart, acted as touch-

runder, and introduced in term, You'll P William, so charge of the Associated Expression course at MIT, Lines Mark E Woldstell, in sharps of the ROTC for Service Volt at MIT, and Best, R D Thomas, commender though flor ner less than sopid rather in several, they fly

render, and attroduced to term, Peop E P Warner, in

where to We Public or a taken of the occasion. Later in

the contact year was made as follown. If A. Gallan, necesester, S. C. Sacritere, Mr. Folker's American messager and the opportunity of fers fights over MIT R. B. Collin. the opportunity at time fluxes over MIT. H. H. Collins, P. P. Nicholson, Francia McVers, and Mindred Examples were

has extend open the early dean of the sounds, and new, Natables at N A A I week

The Anni sector of the Datest of Columbia Chapter

Among those present at the hundress were: Mr Orella

Boy Scouts Will Study Aviation

The Approxes Society for the Promotion of Avilation, 522 man of sir training who will be willing to devote one right

Ebselver Occapiting Engineering Staff The Electrical Associates & Major Co., Lat., of which Cohere Derivet, Jr., is president, in buckling up a sompetent hert apprautation are Sem Sevine, Sumosty associated with as shief engage in shares of sateralt draigs.

June 7, 2926

escoad 6 couts per peund additional for such middlecad 190 The primary object of the bill, secondary to its spinners, he paid per pound rational of by a count of the value of the

cents per propod additional for each additional 300 celes or

Bill Permits Carrying First Class Mail By Air

New Florida Air Mail Schedule

Australian Light Plane Clubs airplanes with two spars sugines, in each elek. The Amtralias Gurement is also keeping at earlymen, free of sharps, and is giving a beam of £20 (\$180) to every used

who qualifies an a paint.

Ascepting to newspaper amounts of it, the fives for the

suggest'un that Preferrer Streken, the header of the eyes divine, may have animaterproted conditions altagether. The

Aviation has been with us long enough that there are

"Side Slipe" by Research orders The resert. From Jake Soldstone, who is attempting to

oner the mucht private and the larger safesoft which still

An accumulance of ours, who has outle a reputation as on surplane designer and builder, after wasking many weary hours over the autorehangeablely of puris in cor of Eu-

### N. Y. National Guard Air Most

The program audiales 27 events, the attack as Video Publi take part in the buttle. There will be a demonstration of

Hebsing Equipment

for Airports and Airways

In averaging for the cost, May George A. Vangles, Jr. F. Lever, J. M. Nable, W. G. Reeter, J. B. Master, A. W.

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And Direction of selliney breshes
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cial aviation only when it is correctly lighted for

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H p. m. Open in all plants relat train \$150 That and from your field

Black Bring - 0.70 y in 18th heat Franchiste purplise - 0.50 p. in. 18th heat Bellevin purplise - 0.50 p. in. 18th heat Bellevin purplise - 0.50 p. in. 18th heat Annual Property of London (18th heat for heat property on 18th

June 7, 1926

Officials of Eric. Pa., are remering to opening in the

prompte Bying two of wisch are new Carton Orsolm . In structure will also beach the art of fring. Crowds motor to the field from the city and neuthbornes towns stress disp-

Connecticut is regidly showing its increasing whereit in

The Consentions Chember of Consenses has agreed Arctice Consenses with the following gambenings and the consenses of the cons

The commany but week conducted a successful air small test flight between Eachester Hartford Airport, Com. By Edd M. Rendy



emericace. They had no one to guide there-me one to point out mistakes

PRITE TODAY No matter whether you here worked with simplesse all you life at on out breasure is the inflator was own t

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but around the two matriment boards. The plane has the please and trued to personds Bord back to the field. As it hack to Mitchel Field. The substance and fire region were on the used but lived finded them all hy unlarge a conduct

rest, the same was towed back to Curtary Field. This is: the nermed one-wheel landing which has taken place at Matelet pired. It would therefore seem as if it were better, ofter mg their have from the ests office to the surport and soil Invised has sold his Metour please to H. C. Duale but perdo none comen work J. P. "Andy" Andrews expent to The Curton howers has been possented with a radio of

Andrews in a Standard and Steined in his Mateur hopped off in

Jame 7, 1926

rays and seems to be used configuratly, fifther the human and dance in hence of H. S. Jenkon who is point to Daffairto take charge of purcuit unders. A good floor was ked by

Warren J. White, our restribile correspondent, in coiner to With the somey of vern weether, the corport as gredsofty welcow from its loss wester somnolence. May 18

AVIATION

hasy. In the evhood equipment there are two Jersen, a Cassel, a Ed Standard, a Dellis, a Thoma-Morse OXXO shoot away from the obsert but will be nevertied to begone negatived with the venture operation of an arphire, which,

The Proper "Flying Instrument Bood" is visiting the

Incodentally, Purker was instrumental in the ferming of Chryshald was provide opposited, and to date has felte fine members on its mater. The maps purpose of the aftsh in to observe accompanion by the computated, and in preparal, upo-

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France Schoffer, who learned to fir with the Beeth Airing, 300 ft. relationer; Error V3—Intermediate albitude bend-ing, minutes albitude 5,000 ft ; Error VIII. Hard albitude He ked several forced hadings on the way, hat made Segment & Scippins, local real extent deslets, have recordly added a heaptrize C-6 Shandard to their expansion. Then Obsider Swingler and his venture beother, Whitford, both

June 7, 1926

II. S. Air Forces

Bombing Competition at Langfey Field The third except April Markins Gan and Burchese Conpetrom, which began at Lengtey Field, Va., May A. wan bombers, which was the less event of the competition Trans were extend in the compatition from every technil sounders to the country and in addition there were three Scrible gens at few target; Event V - Lew Affinds bomb

bendeng, windows altitude 5,000 ft; Event VIII-liebieradded measure to the Army prints as do their atmost, and L. H. Sanderson, U.S. Kanner Gerpe, who computes as a yearstip pile, pure the Amor Tiern a mark to about at with a total source of ToS, which looked good for first plane as events I, III and Y. The Amy, however, had an "nee in the hole" as 2nd Lieux E. M. Morrels who, although hardi-capped by a penalty of 36 points and with 26 about 1827 to his low sittade some. This assured the Avery of first pine to the variet excel-The observation and effect mich maint was a most between

Partings finally need out he competitor, remine a same 666 to Doubtowat Vandenburg's 636 First Loud R. M. The observer match, fireble guar on ground targets and on tow targets resulted as a run for 2nd Lout. H C King, A S. of Matchel Field L. L. with a some of 207. Ocea. S. J. Arristold, U.S. M.C., who looked like the womer at first I Arrichard, i.e. A.C., was some nor the same of any was recent in this match with a serve of 190. Third place went to 2nd Least C W Candend, A.S., of Post Field, Part S.E. Olds., with a source of 168 In the retermedate and but altitude bombing it looked. after the first event, bombing at 5,000 ft , as if Lieutenant McPercubit and Sindelpare of the Sed Rombindones Grand any of the other competition, but Lieutenants George and Harriso, of the Office Chief of Ale Service, went after the

the 2nd Attack Group, Kelly Field, Texas Licetement

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Our record records about two wayle, depending on the justicities, and other his managinals the authorized of the set one is record only from processors. Commanded artistics in a results provide today of their final dependence of the set one It is not recently to produce an abplicable to prior to take this course. Guaranteed Condition Aireleses, Rendy for Immediate Plan

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target from 5,000 St. and made a more of 1472, or 92%, to were the matrix. Laurer, W. T. Larrers and C. E. Shankle. of Printed, were second with a sense of 1334. The britishbana's housing conscision is still in new group at this written and will be someleted about May 15. worker acrossing. Fire offerer are competing in the event. Weather conflices now reversily resolved throughout the

to Langley Field by the scatedasts was in generally good smallton. A large number of Datestee 0.55 were used during the exceptition and gave conflict works throughout National Guard Air Flights Mrs Gra Corel C Houseaul, Charl of the Mritta Barrera, to approve populate and to appropriate above-country tagets of the Nethodal General Air Service consistent. Offsette on soels

New Commandant of A.S. Tactical School strong impunitors, Mrs. Creary Westerner, who has been under-Other Air Service offerer ordered to Lengley Field for

Assessed Secretary of the Navy, Douglas Boltman, no-The Government words this property for a payal air sta-

Plans for Carriers With the completion of the two new alternit carriers, Legington and Surphoga, which is expected on July 1, 2007, such mouse dominar of the Donted States Naval Plant will be necsaid with an air force, asserting to so semonnement from

The Legislation, which will be commanded by Capt. Walter E. Ghersch, will be assigned as familia of the Arrech Squaffrom of the Scouting First. The Savetage, which will be commanded by Cott. Bleary V. Derley, will be the furnituof the Ajperest Squadress of the Stattle First. One of the east and one on the Pauli cout. The Sarrings will be completed first, about Don. 1, 2022. The Lexington will be completed about April 1, 1922. Both ships will go on

Acres Air Orders Capt. Henry Irving Brock, A.S. Box, New York, to active duty, Washington, reversing to meeting status June 20. First Limit Robard Birne, A.S. Kelly Field to Myschel

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Ros. Helbrid L. Horney det T.S.S. Redroad to temp.

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